

### IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims

1. (Currently Amended) A method for reducing the occurrence of unauthorized use of on-line resources, comprising:

receiving a message indicating a request from a user to use on-line resources;

determining whether the request requires authentication;

enabling the request to be fulfilled without authentication if the determination indicates that authentication is not required;

obtaining an indicia of physical identification from the user if the determination instead indicates that authentication is required;

comparing the obtained indicia to a stored indicia for the user; and

enabling the request to be fulfilled if the obtained indicia matches the stored indicia.

2. (Currently Amended) A method according to claim 1, wherein the step of determining whether the request requires authentication includes:

retrieving ~~determining whether~~ a stored profile for the user indicates that containing the user's historical authentication patterns with respect to a plurality of network elements;

identifying certain of the plurality of network elements in the stored profile as being associated with the requested on-line resource;

determining a score for the user based on the user's historical authentication patterns with the certain network elements; and

determining whether authentication is required for this request to use the on-line resource based on the score.

3. (Currently Amended) A method according to claim 1, further comprising:

storing business rules for a plurality of companies having on-line resources;

**identifying a company associated with the requested on-line resource from among the plurality of companies; and**

**retrieving the stored business rules for the identified company,**

wherein the step of determining whether the request requires authentication includes determining whether stored business rules for **[[a]] the identified company** associated with the requested on-line resource indicates that authentication for the user is required.

4. (Original) A method according to claim 3, wherein the step of determining whether the stored business rules requires authentication includes:

determining whether the user is listed by the company as always requiring authentication;  
and

requiring authentication if the user is listed.

5. (Original) A method according to claim 3, wherein the step of determining whether the stored business rules requires authentication includes:

determining whether the user is listed by the company as never requiring authentication;  
and

not requiring authentication if the user is listed.

6. (Original) A method according to claim 3, wherein the step of determining whether the stored business rules requires authentication includes:

determining whether the user is listed by the company as being completely denied access;  
and

completely denying access to the requested on-line resources if the user is listed.

7. (Original) A method according to claim 1, wherein the step of determining whether the request requires authentication includes determining whether the request is indicative of fraudulent behavior.

8. (Original) A method according to claim 7, wherein the fraudulent behavior is one or more of a collision violation, a velocity violation, and a customized trigger.

9. (Canceled)

10. (Currently Amended) A method according to claim [[9]] 1, ~~wherein the step of determining whether the request satisfies other criteria includes~~ further comprising:

determining whether the request is a card transaction;

determining whether restrictions applied to the user and an account associated with the request are satisfied by a purchase associated with the request; and

denying the request if the restrictions are not satisfied.

11. (Original) A method according to claim 10, wherein the restrictions are one or more of type of goods to be purchased, amount of purchase, time of purchase and location of purchase.

12. (Currently Amended) A method according to claim [[9]] 1, ~~wherein the step of determining whether the request satisfies other criteria includes~~ further comprising:

determining whether the request is an account transaction;

determining whether restrictions applied to an account associated with the account transaction are satisfied by the request; and

denying the request if the restrictions are not satisfied.

13. (Original) A method according to claim 12, wherein the restrictions are one or more of frequency of access and time of access.

14. (Currently Amended) A method according to claim [[9]] 1, ~~wherein the step of determining whether the request satisfies other criteria includes~~ further comprising:

determining whether the request is an account transaction;

determining whether use of the requested on-line resources are restricted for an account associated with the user; and

denying the request if the requested on-line resources are restricted for the account.

15. (Currently Amended) A method according to claim [[9]] 1, ~~wherein the step of determining whether the request satisfies other criteria includes~~ further comprising:

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determining whether the request is a control transaction;  
determining whether restrictions applied to the user associated with the control transaction are satisfied by the request; and  
denying the request if the restrictions are not satisfied.

16. (Original) A method according to claim 15, wherein the restrictions are one or more of a parent control and an other control.

17. (Canceled)

18. (Currently Amended) A method according to claim ~~[[17]]~~ 1, wherein the indicia comprises a biometric that is one or more of a fingerprint, a voiceprint, a palmprint, an eye scan, and a handwriting sample.

19. (Currently Amended) A method according to claim ~~[[1]]~~ 3, further comprising providing access to the plurality of companies to allow them to configure ~~configuring a their~~ own individual set of stored business rules that are used in the determining step.

20. (Currently Amended) An apparatus for reducing the occurrence of unauthorized use of on-line resources, comprising:

means for receiving a message indicating a request from a user to use on-line resources;  
means for determining whether the request requires authentication;  
means for enabling the request to be fulfilled without authentication if the determination indicates that authentication is not required;  
means for obtaining an indicia of physical identification from the user if the determination instead indicates that authentication is required;  
means for comparing the obtained indicia to a stored indicia for the user; and  
means for enabling the request if the obtained indicia matches the stored indicia.

21. (Currently Amended) An apparatus according to claim 20, wherein the means for determining whether the request requires authentication includes:

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means for retrieving ~~determining whether~~ a stored profile ~~for the user indicates that~~  
containing the user's historical authentication patterns with respect to a plurality of  
network elements;

means for identifying certain of the plurality of network elements in the stored  
profile as being associated with the requested on-line resource;

means for determining a score for the user based on the user's historical  
authentication patterns with the certain network elements; and

means for determining whether authentication is required for this request to use the  
on-line resource based on the score.

22. (Currently Amended) An apparatus according to claim 20, further comprising:  
means for storing business rules for a plurality of companies having on-line  
resources;

means for identifying a company associated with the requested on-line resource  
from among the plurality of companies; and

means for retrieving the stored business rules for the identified company,

wherein the means for determining whether the request requires authentication includes  
means for determining whether ~~[[a]] stored profile~~ business rules for ~~[[a]] the identified~~  
company associated with the requested on-line resource indicates that authentication for the user  
is required.

23. (Original) An apparatus according to claim 22, wherein the means for determining  
whether the stored business rules requires authentication includes:

means for determining whether the user is listed by the company as always requiring  
authentication; and

means for requiring authentication if the user is listed.

24. (Original) An apparatus according to claim 22, wherein the means for determining  
whether the stored business rules requires authentication includes:

means for determining whether the user is listed by the company as never requiring  
authentication; and

means for not requiring authentication if the user is listed.

25. (Original) An apparatus according to claim 22, wherein the means for determining whether the stored business rules requires authentication includes:

means for determining whether the user is listed by the company as being completely denied access; and

means for completely denying access to the requested on-line resources if the user is listed.

26. (Original) An apparatus according to claim 20, wherein the means for determining whether the request requires authentication includes means for determining whether the request is indicative of fraudulent behavior.

27. (Original) An apparatus according to claim 26, wherein the fraudulent behavior is one or more of a collision violation, a velocity violation, and a customized trigger.

28. (Canceled)

29. (Currently Amended) An apparatus according to claim ~~[[28]]~~ 20, ~~wherein the means for determining whether the request satisfies other criteria includes~~ further comprising:

means for determining whether the request is a card transaction;

means for determining whether restrictions applied to the user and an account associated with the request are satisfied by a purchase associated with the request; and

means for denying the request if the restrictions are not satisfied.

30. (Original) An apparatus according to claim 29, wherein the restrictions are one or more of type of goods to be purchased, amount of purchase, time of purchase and location of purchase.

31. (Currently Amended) An apparatus according to claim ~~[[28]]~~ 20, ~~wherein the means for determining whether the request satisfies other criteria includes~~ further comprising:

means for determining whether the request is an account transaction;

means for determining whether restrictions applied to an account associated with the account transaction are satisfied by the request; and

means for denying the request if the restrictions are not satisfied.

32. (Original) An apparatus according to claim 31, wherein the restrictions are one or more of frequency of access and time of access.

33. (Currently Amended) An apparatus according to claim ~~[[28]]~~ 20, ~~wherein the means for determining whether the request satisfies other criteria includes~~ further comprising:

means for determining whether the request is an account transaction;

means for determining whether use of the requested on-line resources are restricted for an account associated with the user; and

means for denying the request if the requested on-line resources are restricted for the account.

34. (Currently Amended) An apparatus according to claim ~~[[28]]~~ 20, ~~wherein the means for determining whether the request satisfies other criteria includes~~ further comprising:

means for determining whether the request is a control transaction;

means for determining whether restrictions applied to the user associated with the control transaction are satisfied by the request; and

means for denying the request if the restrictions are not satisfied.

35. (Original) An apparatus according to claim 34, wherein the restrictions are one or more of a parent control and an other control.

36. (Canceled)

37. (Currently Amended) An apparatus according to claim 36, wherein the indicia comprises a biometric that is one or more of a fingerprint, a voiceprint, a palmprint, an eye scan, and a handwriting sample.

38. (Original) An apparatus according to claim [[20]] 22, further comprising means for providing access to the plurality of companies to allow them to configure ~~configuring a~~ their own individual ~~configuring a set of~~ stored business rules that are used by the determining.

39. (Currently Amended) An apparatus for reducing the occurrence of unauthorized use of on-line resources, comprising:

a server that is adapted to communicate with a network based service so as to receive a message indicating a request from a user to use the network based service;

a rules subsystem coupled to the server that determines whether the request requires authentication, the rules subsystem causing the server to enable the request to be fulfilled without authentication if the determination indicates that authentication is not required and causes the server to obtain an indicia of physical identification from the user if the rules subsystem instead determines that authentication is required; and

an authentication subsystem coupled to the server ~~and the controller~~ that compares the obtained indicia to a stored indicia for the user,

wherein the server sends a signal to the network based service that the request is to be fulfilled if the authentication subsystem determines that the obtained indicia matches the stored indicia.

40. (Currently Amended) An apparatus according to claim 39, further comprising:

a database coupled to the ~~[[controller]]~~ rules subsystem, the database maintaining a stored profile for the user indicating that containing the user's historical authentication patterns with respect to a plurality of network elements,

wherein the controller rules subsystem is adapted to retrieve the user's stored profile ~~accessing historical rules from the database in response to the request, identify certain of the~~ plurality of network elements in the stored profile as being associated with the requested on-line resource, determine a score for the user based on the user's historical authentication patterns with the certain network elements, and to determine whether authentication is required for the user for ~~a current transaction~~ this request to use the on-line resource based on the score.



41. (Currently Amended) An apparatus according to claim 39, further comprising:  
a database coupled to the ~~controller~~ rules subsystem, the database storing business rules for a plurality of companies having on-line resources,  
wherein the controller accessing rules subsystem is adapted to identify a company associated with the requested on-line resource from among the plurality of companies, retrieve the stored business rules for the identified company from the database to and  
determine whether [[a]] the stored business rules for the identified company associated with the requested on-line resource requires authentication for the user.
42. (Canceled)
43. (Currently Amended) An apparatus according to claim ~~[[42]]~~ 39, further comprising a user profile subsystem coupled to the server which is adapted to determine whether the request is indicative of fraudulent behavior, wherein the fraudulent behavior is one or more of a collision violation, a velocity violation, and a customized trigger.
44. (Canceled)
45. (Currently Amended) An apparatus according to claim ~~[[44]]~~ 39, wherein the indicia is a biometric, the apparatus further comprising a database that stores a plurality of biometrics for a respective plurality of users, and wherein the biometric is one or more of a fingerprint, a voiceprint, a palmprint, an eye scan, and a handwriting sample.
46. (New) A method according to claim 2, wherein the step of determining the score includes:  
applying a weight to each of the certain network elements based on a relative importance of the certain network elements;  
evaluating the user's historical relationship with each of the certain network elements;  
and  
aggregating the score using the weighted evaluations.

47. (New) A method according to claim 46, further comprising:  
allowing a system administrator to configure the respective weights for the plurality of network elements.
48. (New) An apparatus according to claim 21, wherein the means for determining the score includes:  
means applying a weight to each of the certain network elements based on a relative importance of the certain network elements;  
means evaluating the user's historical relationship with each of the certain network elements; and  
means for aggregating the score using the weighted evaluations.
49. (New) An apparatus according to claim 48, further comprising:  
means for allowing a system administrator to configure the respective weights for the plurality of network elements.
50. (New) An apparatus according to claim 41, wherein the rules subsystem is further adapted to apply a weight to each of the certain network elements based on a relative importance of the certain network elements, evaluate the user's historical relationship with each of the certain network elements, and aggregate the score using the weighted evaluations.
51. (New) An apparatus according to claim 50, further comprising:  
an administrator service that allows a system administrator to configure the respective weights for the plurality of network elements.